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1. N11A-T023: Enhancing System Software Resiliency via Function-Level Artificial Diversity

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop function (component) level artificial diversity in a computing system, and evaluate its capability and performance. DESCRIPTION: To achieve information dominance, the Navy requires information assurance within its information infrastructures. Today"s networked computer systems are exposed to compromises, creating potential for system and application damage which impact per ...

STTR Navy

2. N11A-T024: Development of an EO/IR Common Aperture Modular Multifunction Sensor

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To explore and develop the technologies needed to combine a number of passive and active electro-optical functions, currently being accomplished through multiple apertures, into a single aperture. DESCRIPTION: Electro-optical surveillance and targeting systems are very numerous in the DOD and involve substantial complexity. They usually consist of large focal plane imagers, lasers a ...

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3. N11A-T025: Low-Power Arctic environmental sensors for UUVs

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: With the increased interest in Arctic environmental prediction and sensing, new sensors are required to make the observations needed to enable integrated earth system models to accurately forecast future environmental conditions in the Arctic. UUVs can be used to increase the sensing capability in the Arctic, but they require the development of new sensing technologies to allow adequate ...

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4. N11A-T026: Low cost acoustic transmitter

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop, fabricate, and demonstrate an acoustic transmitter consisting of an underwater acoustic projector, a self-contained very high efficiency power amplifier, signal generation and control circuitry, and a long endurance power supply. An innovative utilization of new transduction technology, integrated power amplification and a novel energy source is desired that can be compact and ...

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5. N11A-T027: Compact, Light Weight, Low Cost, Precision, Non-inertial Underwater Navigation Sensor

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Design and develop a compact, light weight, low cost, non-inertial sensor capable of providing external navigation reference information for small UUVs conducting environmental and tactical reconnaissance in littorals and riverine areas. The system shall be easily integratable as a module to a number of existing underwater deployed sensors and unmanned underwater vehicles. DESCRIPTIO ...

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6. N11A-T028: New Affordable Energy Storage Technologies for Power Grids and Micro-Grids

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop new affordable energy storage systems to increase grid security, facilitate micro-grid development, and increase use of renewable energy technologies at shore-based facilities and for forward operating bases. DESCRIPTION: Power grids can be adversely affected by variable power demands, weather events, accidental damage, and deliberate attack. Furthermore, the transient natur ...

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7. N11A-T029: Affordable High Strength Mo-Si-B Alloys for High Temperature Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Mature Mo-Si-B material production methodology for Aerospace use. In Phase 1 the process of maturation will optimally include the demonstration of medium scale material production, material lots of 1 to 10 pounds, and the assessment of the benefit of extrusion on the mechanical properties of Mo-Si-B alloys. DESCRIPTION: Maturation of material production methodologies/techniques is ne ...

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8. N11A-T030: Novel Torque Sensing for Condition Based Maintenance

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To explore the use of and demonstrate the effectiveness of novel torque sensing devices for condition based maintenance of Navy rotating machinery (motors, generators, pumps, gear systems, etc.). Rate-of-change torque sensors, for example, have demonstrated both a sensitivity and time resolution high enough to not only recognize failing machinery, but to specifically identify the faili ...

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9. N11A-T031: Multi-Perspective Decision Making in a Networked Environment

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a decision aid (selected display and algorithm products) to dramatically enhance submarine decision making by allowing rich multi-perspective interaction between local control room operations and alternative operational command centers. DESCRIPTION: Across warfare and mission areas, and between and across echelons of command, the rate at which information is presented to deci ...

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10. N11A-T032: High-level tools and languages for faster Intelligent Tutoring System(ITS) model development

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: High-level abstractions for new tools and languages capable of increasing the efficiency of expert and student model development for intelligent tutoring systems. DESCRIPTION: One of the success stories for artificial intelligence and cognitive modeling techniques has been in the area of intelligent tutoring systems (ITS). ITS have proven to increase levels of student learning by 1.5 ...

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